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PA - FUJI DENKI SOUGOU KENKYUSHO:KK; others: 01

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TI - MANUFACTURE OF MATRIX FOR FUEL CELL

AB - PURPOSE: To obtain a matrix having a high mechanical strength and a great electrolyte-holding ability by preparing an SiC fiber layer from a mixture solution containing SiC fibers and a fluorine resin binding agent using a metallic net, then filling the fiber layer with a solution containing beta-type crystalline SiC fine powder and a fluorine resin binding agent before performing heat treatment on the thus formed body.

- CONSTITUTION: SiC fibers 12 are dispersed in a mixture liquid consisting of water and an organic solvent such as alcohol. The thus prepared dispersion is then combined with an aqueous mixture solution containing PTFE 11 before the mixture is stirred. Next, the mixture is formed into a thin SiC fiber film by means of a metallic net. The thus formed thin SiC fiber film consists of a network in which SiC fibers 12 are tangled with each other in the surface direction. After that, a dispersion liquid prepared by dispersing beta-type SiC particles 10 in a PTFE mixture solution is filled in the thin SiC fiber film before this is heated in the atmosphere at 300 deg.C, thereby obtaining a matrix.